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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/665,516	09/22/2003	Andre Stamm	107664.115 US9	5829	
26694 VENABLE LL	7590 04/20/200 P	7	EXAMINER		
P.O. BOX 3438			Sheikh, humera n		
WASHINGTO	N, DC 20043-9998		ART UNIT	PAPER NUMBER	
			1615		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	04/20/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/665,516	STAMM ET AL.				
		Examiner	Art Unit				
	•	Humera N. Sheikh	1615				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	·			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	. •	•					
1) 🛛	Responsive to communication(s) filed on 26 Ja	anuary 2007.					
•		action is non-final.	•				
3)	, 						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) 1-61 is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-61</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	ion Papers		•				
9)[The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.	121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
	•						
		•	•				
Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notic	ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/26/07. 5) Notice of Informal Patent Application 6) Other:							
•							

DETAILED ACTION

Status of the Application

Receipt of Applicant's Response, Arguments/Remarks after Non-Final Office Action and the Information Disclosure Statement (IDS), all filed 01/26/2007 is acknowledged.

Claims 1-61 are pending in this action. No claims have been amended in this response.

Claims 1-61 remain rejected.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Curtet et al. (US Pat. No. 4, 895,726) in view of Duclos et al. (U.S. Pat. No. 5,776,495).

The instant invention is drawn to a suspension of micronized fenofibrate in a solution of at least one hydrophilic polymer, wherein the weight ratio of fenofibrate/hydrophilic polymer is between 1/10 and 4/1.

Curtet et al. ('726) teach a fenofibrate composition comprising fenofibrate particles in combination with a solid surfactant, wherein the fenofibrate and solid surfactant have been comicronized (see reference column 1, line 1 - col. 2, line 68); examples and claims. Curtet teach

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an intimate mixture of co-micronized fenofibrate and a solid surfactant, wherein the mixture is converted to granules in the presence of water (col. 2, lines 5-20). The preferred surfactant taught is sodium lauryl-sulfate in a recommended amount of between 0.5% and 7% by weight (col. 1, lines 52-60). Curtet teach overlapping amounts of fenofibrate and the hydrophilic polymer- polyvinylpyrrolidone, wherein the fenofibrate is present in an amount of 200 mg per therapeutic unit (col. 1, lines 50-51) and the polyvinylpyrrolidone is contained in an amount of 7 mg (col. 3, lines 21-32). The fenofibrate/solid surfactant mixture granules have a mean particle size of less than 15 µm (col. 1, lines 61-66). Filling, dispersing and flow-enhancing excipients can be added and include lactose, starch, polyvinylpyrrolidone and magnesium stearate (col. 1, line 67 – col. 2, line 4).

According to Curtet *et al.*, it is known that the micronization of an active principle is capable of improving the dissolution of the said active principle in vivo, and hence its bioavailability. It is also known that the addition of a surfactant excipient to a formulation of an active principle is capable of improving the absorption and consequently the bioavailability of the said active principle (col. 1, lines 28-34).

The fenofibrate composition can be presented in the form of gelatin capsules, which are especially useful in the oral treatment of hyperlipidemia and hypercholesterolemia (col. 1, lines 44-49).

Curtet et al. teach that the weight ratio of surfactant/fenofibrate will be between about 0.75/100 and 10.5/100 (col. 1, lines 59-60). Curtet et al. do not explicitly teach the claimed weight ratio of the fenofibrate/hydrophilic polymer & claimed surfactant/hydrophilic polymer weight ratio. Curtet et al. also do not teach the claimed fenofibrate and hydrophilic polymer

amounts/ranges. However, Applicants have not demonstrated any unexpected or superior results attributable to the claimed weight ratio of the fenofibrate/polymer & surfactant/polymer, nor the amounts of fenofibrate and polymer claimed. Suitable or effective weight ratios of drug/polymer, surfactant/polymer and amounts ranges of drug/polymer could be determined by one of ordinary skill in the pharmaceutical art through routine or manipulative experimentation to obtain optimal results, as these are indeed variable parameters attainable within the art.

Curtet *et al.* do not expressly state a fenofibrate suspension, but rather a composition, wherein co-micronized granules are contained in the presence of water. However, it is well known in the art to incorporate a medicament, such as fenofibrate in combination with water and a surfactant to form a suspension.

In any event, **Duclos** *et al.* ('495) are relied upon for their teaching that drugs with poor solubility in water can be modified favorably by adjunction of non-ionic surfactants, solubilizing agents and that micronization of medicaments increases the external specific surface area and are convenient for pharmaceutical forms, such as suspensions. Duclos *et al.* also teach that adjunction of surfactants can increase the solubility of active components and thereby improve the kinetics of resorption (see reference column 1, lines 18-37). Duclos *et al.* teach that poorly soluble active ingredients include fenofibrate (col. 5, line 6).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate a suspension of micronized fenofibrate as taught by Duclos et al. within the fenofibrate composition of Curtet et al. One of ordinary skill in the art would be motivated to do so with a reasonable expectation of success because Duclos et al. teach micronization of medicaments in suitable forms such as suspensions, can be beneficial in

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increasing solubility of active components and thereby improving the kinetics of resorption and consequently, the bioavailability of active ingredients. The expected result would be an improved bioavailability fenofibrate suspension formulation, which can be administered once a day.

Claims 1-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Curtet et al. (US Pat. No. 4, 895,726) in view of Ikeda et al. (U.S. Pat. No. 5,952,356).

The instant invention is drawn to a suspension of micronized fenofibrate in a solution of at least one hydrophilic polymer, wherein the weight ratio of fenofibrate/hydrophilic polymer is between 1/10 and 4/1.

Curtet et al. ('726) teach a fenofibrate composition comprising fenofibrate particles in combination with a solid surfactant, wherein the fenofibrate and solid surfactant have been comicronized (see reference column 1, line 1 - col. 2, line 68); examples and claims. Curtet teach an intimate mixture of co-micronized fenofibrate and a solid surfactant, wherein the mixture is converted to granules in the presence of water (col. 2, lines 5-20). The preferred surfactant taught is sodium lauryl-sulfate in a recommended amount of between 0.5% and 7% by weight (col. 1, lines 52-60). Curtet teach overlapping amounts of fenofibrate and the hydrophilic polymer- polyvinylpyrrolidone, wherein the fenofibrate is present in an amount of 200 mg per therapeutic unit (col. 1, lines 50-51) and the polyvinylpyrrolidone is contained in an amount of 7 mg (col. 3, lines 21-32). The fenofibrate/solid surfactant mixture granules have a mean particle size of less than 15 μm (col. 1, lines 61-66). Filling, dispersing and flow-enhancing excipients

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can be added and include lactose, starch, polyvinylpyrrolidone and magnesium stearate (col. 1, line 67 – col. 2, line 4).

According to Curtet *et al.*, it is known that the micronization of an active principle is capable of improving the dissolution of the said active principle in vivo, and hence its bioavailability. It is also known that the addition of a surfactant excipient to a formulation of an active principle is capable of improving the absorption and consequently the bioavailability of the said active principle (col. 1, lines 28-34).

The fenofibrate composition can be presented in the form of gelatin capsules, which are especially useful in the oral treatment of hyperlipidemia and hypercholesterolemia (col. 1, lines 44-49).

Curtet et al. teach that the weight ratio of surfactant/fenofibrate will be between about 0.75/100 and 10.5/100 (col. 1, lines 59-60). Curtet et al. do not explicitly teach the claimed weight ratio of the fenofibrate/hydrophilic polymer & claimed surfactant/hydrophilic polymer weight ratio. Curtet et al. also do not teach the claimed fenofibrate and hydrophilic polymer amounts/ranges. However, Applicants have not demonstrated any unexpected or superior results attributable to the claimed weight ratio of the fenofibrate/polymer & surfactant/polymer, nor the amounts of fenofibrate and polymer claimed. Suitable or effective weight ratios of drug/polymer, surfactant/polymer and amounts ranges of drug/polymer could be determined by one of ordinary skill in the pharmaceutical art through routine or manipulative experimentation to obtain optimal results, as these are indeed variable parameters attainable within the art.

Curtet et al. do not expressly state a fenofibrate suspension, but rather a composition, wherein co-micronized granules are contained in the presence of water. However, it is well

known in the art to incorporate a medicament, such as fenofibrate in combination with water and a surfactant to form a suspension.

In any event, **Ikeda** *et al.* ('356) are relied upon for their teaching of pharmaceutical compositions that include fibrate compounds, such as fenofibrate that have actions of lowering blood cholesterol levels and whereby the compositions can be in suitable forms, such as suspensions (see reference column 10, line 64 – col. 11, line 3); (col. 11, line 65 – col. 12, line 35); (col. 13, lines 51-58).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate fenofibrate pharmaceutical compositions in the form of suspensions, such as taught by Ikeda *et al.* within the fenofibrate composition of Curtet *et al.*One of ordinary skill in the art would be motivated to do so with a reasonable expectation of success because Ikeda *et al.* teach pharmaceutical compositions comprising fenofibrate that are suitably in the form of suspensions and teach that such formulations are effective for lowering blood cholesterol levels in a patient. The expected result would be an enhanced fenofibrate suspension formulation, beneficial for the treatment of elevated cholesterol levels.

Response to Arguments

Applicant's arguments filed 01/26/07 have been fully considered but they are not persuasive.

Rejection under 35 U.S.C. 103(a) of claims 1-61 over Curtet ('726) in view of Duclos ('495):

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Applicant argued, "Curtet does not disclose or suggest any suspension of micronized fenofibrate. Curtet never teaches a solution of at least one polymer, and does not provide motivation to produce a solution containing at least one polymer. Curtet teaches away from a suspension and requires that the surfactant be in solid form. Duclos does not cure the deficiencies of Curtet. Duclos claims a process for preparing a solid dispersion. Duclos does not teach a suspension of micronized active ingredient, but a solution containing the active ingredient in dissolved form. The invention, in contrast, is directed to a suspension of fenofibrate in a micronized form. The claimed invention provides a suspension of active ingredient, which is an intermediate product which is used in the manufacture of a final composition which exhibits superior results."

Applicant's arguments have been considered, but were not persuasive. Applicants have not sufficiently established unexpected results, which would amply distinguish over the art of record, by their use of a suspension. The prior art initially recognizes and teaches a similar formulation as claimed, which utilizes the same components as that being claimed by the Applicant. Namely, Curtet teach an intimate mixture of co-micronized fenofibrate and a solid surfactant, wherein the mixture is converted to granules in the presence of water (col. 2, lines 5-20). Applicants have not established any patentable distinction over the reference teachings bases on their use of a suspension of micronized fenofibrate. The claims, at present, remain generic enough to read on the reference teachings.

Rejection under 35 U.S.C. 103(a) of claims 1-61 over Curtet ('726) in view of Duclos ('495):

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Applicant argued, "Ikeda states no preference for any fibrate compound, nor provides working examples that use any type of fibrate. Suspensions are mentioned in a list of possible dosage forms. No preference is placed on suspensions. Moreover, Ikeda is non-analogous art."

Applicant's arguments have been considered, but were not persuasive. The secondary reference of Ikeda was relied upon for their general teaching of pharmaceutical compositions that include fibrate compounds, such as fenofibrate that have actions of lowering blood cholesterol levels and whereby the compositions can be in suitable forms, such as suspensions (see above). Applicant's argument that "no preference is given for any fibrate compound, nor of suspensions" was not persuasive since preferred as well as non-preferred teachings are considered in determining patentable subject matter. Moreover, the reference recognizes the use of compositions that include fibrate compounds and also teaches forms, such as suspensions and thus the reference teachings are a positive suggestion in the art. In response to applicant's argument that Ikeda is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See In re Oetiker, 977 F.2d 1443, 24 USPO2d 1443 (Fed. Cir. 1992). In this case, Ikeda clearly teaches compositions comprising fibrate compounds, whereby the formulations can be pharmaceutical suspensions, that are effective for lowering blood cholesterol levels in a patient.

The instant claims remain unpatentable over the cited art of record delineated above.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Humera N. Sheikh whose telephone number is (571) 272-0604.

The examiner can normally be reached on Monday through Friday from 8:00A.M. to 5:30P.M.,

alternate Fridays off.

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supervisor, Michael Woodward, can be reached on (571) 272-8373. The fax phone number for

the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have any questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Humera N. Sheikh

Patent Examiner

Art Unit 1615

April 16, 2007

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